Docket No.: 535352002200

AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the claims

- 1. (Currently amended) A crosspoint switch architecture having:
- a monolithic substrate;
- a plurality (N) of electrical inputs provided on said substrate;
- a plurality (M) of electrical outputs provided on said substrate;
- switch means disposed on said substrate for selectively interconnecting said inputs to said outputs, said switch means having M multiplexers; and

means disposed on said substrate for controlling said switch means.

- 2. (canceled)
- 3. (Original) The invention of Claim 2 wherein each multiplexer is an N to 1 multiplexer and each multiplexer is adapted to receive each of said N electrical inputs.
 - 4. (Original) The invention of Claim 3 wherein each of said N inputs to each of said multiplexers is received through a respective one of N switchable amplifiers.
 - 5. (Currently amended) The invention of Claim 4 1 wherein each multiplexer includes N selection multiplexers.

Docket No.: 535352002200

- 6. (Original) The invention of Claim 5 further including means for summing the outputs of said N selection multiplexers to provide a single output.
- 7. (Original) The invention of Claim 6 further including means for buffering said single output.
- 8. (Original) The invention of Claim 3 wherein each of said N inputs to each of said multiplexers is received through a respective one of N switchable isolation buffers.
- 9. (Original) The invention of Claim 8 further including means for summing the outputs of said N buffers to provide a single output.
- 10. (Original) The invention of Claim 9 further including means for buffering said single output.
- 11. (Original) The invention of Claim 1 wherein said control means includes a serial in, parallel out shift register.

the cut

12. (Original) A crosspoint switch architecture having:

a monolithic substrate;

a plurality (N) of electrical inputs provided on said substrate;

a plurality (M) of electrical outputs provided on said substrate;

M multiplexers disposed on said substrate for selectively interconnecting said inputs to said outputs, each of said multiplexers being an N to 1 multiplexer, whereby each multiplexer is adapted to receive each of said electrical inputs; and

a serial in, parallel out shift register disposed on said substrate for controlling said multiplexers.

- 13. (Original) The invention of Claim 12 wherein each of said N inputs to each of said multiplexers is received through a respective one of N switchable amplifiers.
- 14. (Original) The invention of Claim 13 wherein each of said N inputs to each of said multiplexers is received through a respective one of N switchable isolation buffers.
- 15. (Original) The invention of Claim 14 further including means for summing the outputs of said N buffers to provide a single output.
- 16. (Original) The invention of Claim 15 further including means for buffering said single output.

17. (Original) A method for switching including the steps of:

providing a monolithic substrate;

providing a plurality (N) of electrical inputs provided on said substrate;

providing a plurality (M) of electrical outputs provided on said substrate;

providing M, N to 1, multiplexers on said substrate, each multiplexer being adapted to

5

receive each of said electrical inputs, and selectively interconnecting said inputs to said outputs; and

providing a serial in, parallel out shift register on said substrate for controlling said

multiplexers.

18. (New) A crosspoint analog switch architecture for switching continuous time analog

waveform signals, said switch architecture comprising:

a monolithic substrate;

a plurality (N) of electrical inputs provided on said substrate;

a plurality (M) of electrical outputs provided on said substrate;

a switch disposed on said substrate for selectively interconnecting said inputs to said outputs;

and

a controller disposed on said substrate for controlling said switch means.

